IN THE CLAIMS:

Please amend claim 1 as follows.

1. (Currently Amended) An optical analysis device comprising:

a cylindrical columnar light-transmitting member for transmitting light, having an external face capable of immobilizing a detection-objective substance;

a light separating means for separating an exciting light introduced into the light-transmitting member at a first end thereof and transmitted through the light-transmitting member, and a fluorescence light produced by excitation of the detection-objective substance by the exciting light, at a second end of the light-transmitting member[[,]]; and

a detecting means for detecting the fluorescence light separated by the light separating means.

2. (Original) The optical analysis device according to claim 1, wherein the light-separating means is a diffraction grating.

3. (Original) The optical analysis device according to claim 1, wherein the light-transmitting member comprises an optical waveguide.

4. (Original) The optical analysis device according to claim 1, wherein the optical analysis device comprises a flow path which covers the light-transmitting member and has

an inlet for introducing the detection-objective substance and an outlet for discharging the detection-objective substance.

5. (Original) The optical analysis device according to claim 1, wherein the light-transmitting member has at the first end thereof a coupling means for coupling the exciting light to the light-transmitting member.

6. (Original) The optical analysis device according to claim 5, wherein the coupling means is a diffraction grating.

7. (Original) The optical analysis device according to any of claims 1 to 6, wherein the external face of the light-transmitting member is capable of immobilizing a trapping component for trapping the detection-objective substance.

8. (Original) The optical analysis device according to claim 7, wherein the trapping component traps the detection-objective substance by an antigen-antibody reaction.

9. (Original) The optical analysis device according to claim 7, wherein the trapping component traps the detection-objective substance by hybridization reaction of DNA.